

Network Testing should Drive Value

Romanian Network Operators Group Conference

Bucharest, Romania October 2015

We connect

Overview



Company profile

AFL is a subsidiary of Fujikura Japan \$6 billion



- Core business is the manufacturer of fibre optic related products
- 4,600 people worldwide

Focus of this Presentation

- Perspectives and observations on Network Testing
- How this influenced our Next-Gen Product Architecture
- Introduction to Rogue™ and aeRos™

How is testing viewed within our industry?



Network designers, planners and operators

- Forms part of our statement of requirements
- Closing step in the network build
- Serves as a reference



Cable, transmission and test equipment manufacturers

- Measures performance
- Provides conformance to specifications
- Good practices prevent future network issues



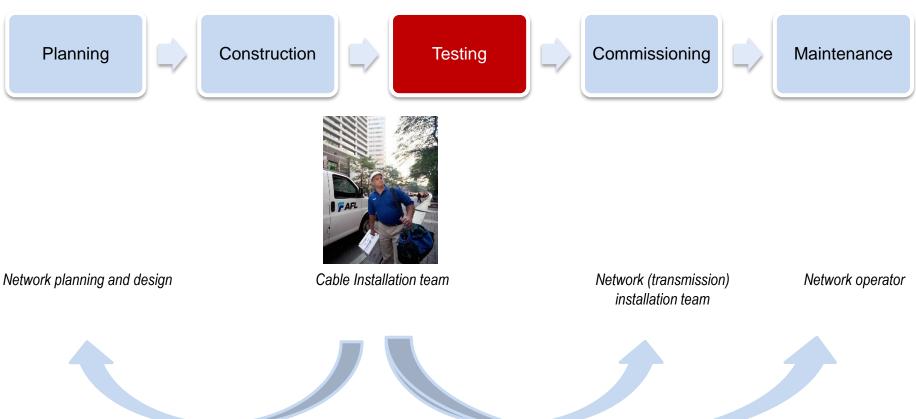
Cabling and network installation teams

- Time consuming
- Configurations and record keeping is complex
- Considered a cost centre especially for contractors

Network Testing within a wider context



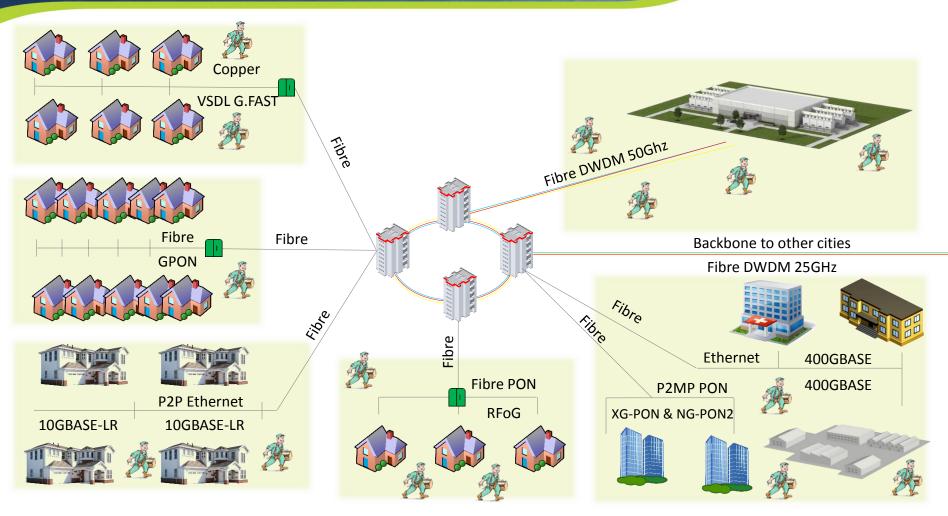
Core stages within a network build process...



Testing can be seen as **time consuming and complex** due to the information that is required to make meaningful measurements in the appropriate format.

Performing Network Testing in the field





Even with test requirements available dispatching information to technicians in the field is **challenging**

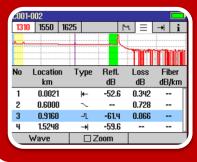
The technicians challenge





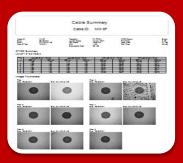
Configuration of the Test Equipment

- Identification of cabling infrastructure
- Test setups
- Test limits (PASS / FAIL)



Making sense of the measurements

- Navigating within the user interfaces
- Understanding results and resolving failed links
- Getting support from team members



Getting results back from the field

- What format should they be saved
- Where and how should they be sent

Next-Gen Product architecture

Design goal

To devise a solution that reduced the overall cost of testing from a CAPEX (product level) and OPEX (systems level) perspective to drive value.

Guiding principles

- 1. We need to consider how testing can better integrate into the wider context of building and maintaining networks
- 2. Our solution must integrate with the workflow of a cable installation team without the need to chase information required to perform testing
- Technicians should not be faced with complex user interfaces, test configurations and transferring results

Technology strategy

- Smart devices should be used for connectivity and customized Test Apps to reduce UI complexities
- Remote configuration and storage could be facilitated using the cloud
- An open modular test platform would allow for flexibility and other parties to design hardware
- Integration with a wider operational support system (OSS) should be possible



aeros

Cloud-Based Workflow Management

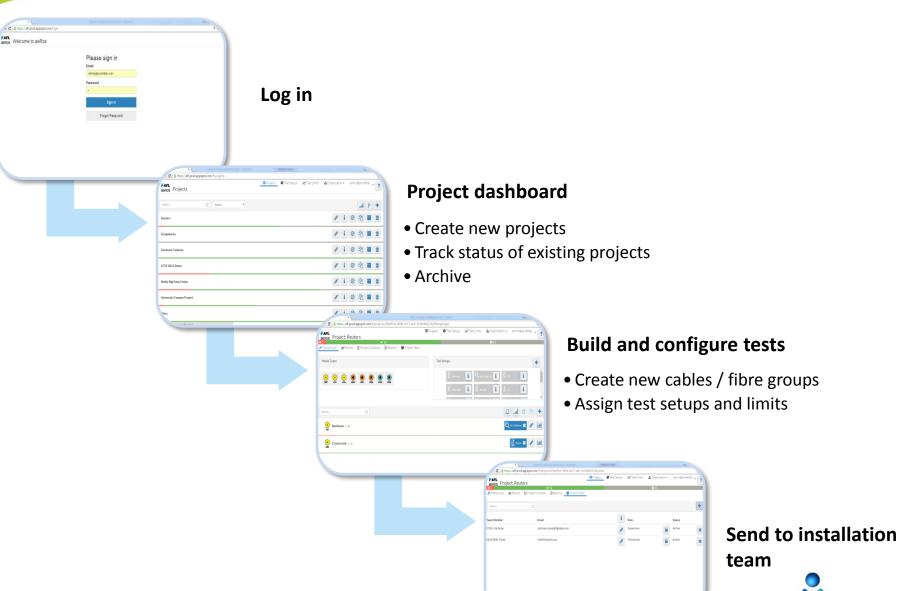
AFL's next generation modular test suite



Testing Outside the Box

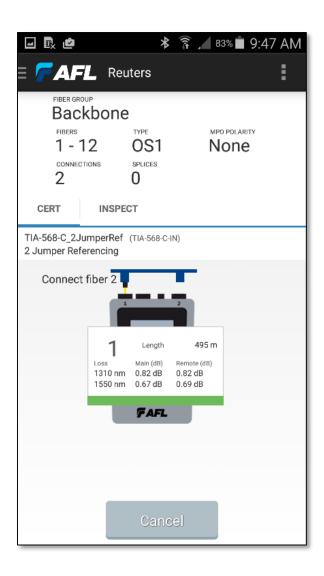
AEROS™ project setup & configuration





ROGUE™ TEST APP







ROGUETM CARRIER



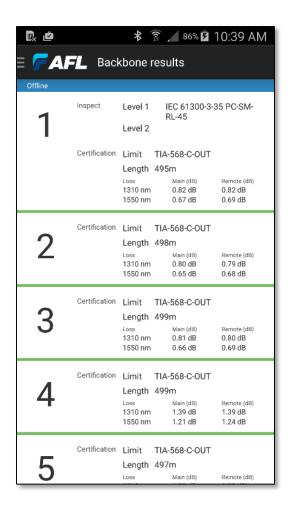




ROGUE™ TEST APP

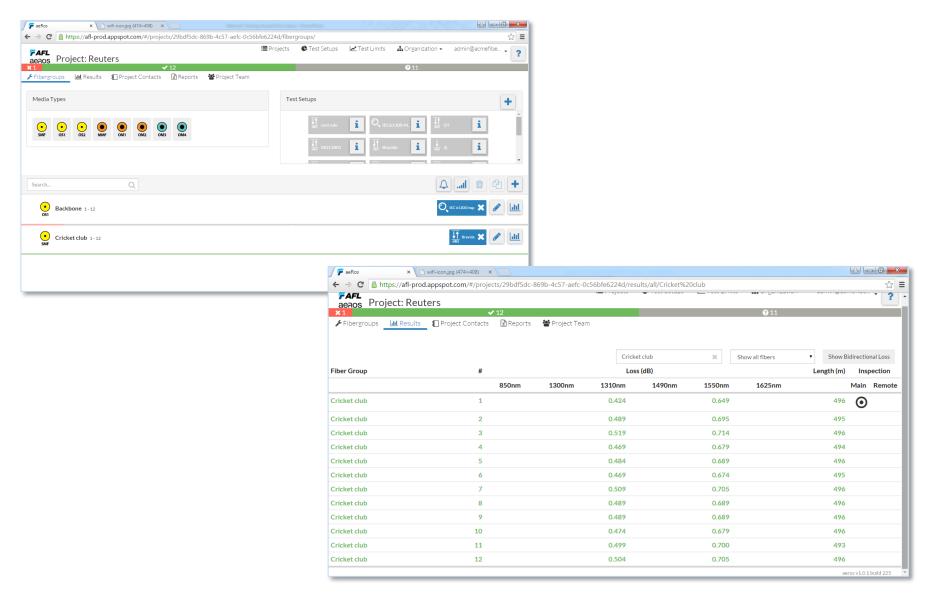






AEROS™ tracking & results storage







Thank you

For further information please contact:

Teleprecision MTS

Strada Episcopul Radu 8, București 020753

Tel: 021 318 7431

http://www.teleprecision-mts.ro/

We connect.